

*Sub*  
1 **I CLAIM:**

2 1. A disk drive with improved shrouding, comprising:  
3  
4 (a) a disk;  
5  
6 (b) a spindle motor for rotating the disk;  
7  
8 (c) a head;  
9  
10 (d) an actuator arm for actuating the head radially over the disk;  
11  
12 (e) a base; and  
13  
14 (f) a cover attached to the base to form a head disk assembly chamber, the cover  
15 comprising:  
16  
17 an inner surface and an outer surface; and  
18  
19 a shroud extending axially from the inner surface into the head disk assembly  
20 chamber substantially enveloping the periphery of the disk, including at least part  
21 of the periphery coextensive with the actuator arm, to provide radial shrouding of  
22 the disk.

23 2. The disk drive as recited in claim 1, wherein the shroud is a separate piece adhered to the  
24 inner surface of the cover.

25 3. The disk drive as recited in claim 1, wherein the cover is form molded and the form  
26 molded cover comprises the shroud.

27 4. The disk drive as recited in claim 1, wherein the cover further comprises a substantially  
28 C-shaped depression positioned substantially concentric over the disk to provide axial  
29 shrouding.

1 5. A method of manufacturing a disk drive with improved shrouding, comprising the steps  
2 of:  
3 (a) forming a shroud extending axially from an inner surface of a cover;  
4 (b) disposing a head disk assembly into a base of a head disk assembly chamber, the head  
5 disk assembly comprising a disk, a head, an actuator arm for actuating the head  
6 radially over the disk, and a spindle motor for rotating the disk; and  
7 (c) attaching the cover to the base of the head disk assembly chamber such that the  
8 shroud substantially envelops the periphery of the disk, including at least part of the  
9 periphery coextensive with the actuator arm, to provide radial shrouding of the disk.

1 6. The method of manufacturing a disk drive as recited in claim 5, wherein the shroud is a  
2 separate piece, further comprising the step of adhering the shroud to the inner surface of  
3 the cover.

1 7. The method of manufacturing a disk drive as recited in claim 5, further comprising the  
2 step of form molding the cover, wherein the form molded cover comprises the shroud.

1 8. The method of manufacturing a disk drive as recited in claim 5, further comprising the  
2 step of forming a substantially C-shaped depression in the cover, the C-shaped depression  
3 positioned substantially concentric over the disk to provide axial shrouding.